

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/11783

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.⁷ H01H35/02, G01C9/10, G07C1/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ H01H35/02, G01C9/10, G07C1/04, G01P15/135, G01H1/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-1996	Toroku Jitsuyo Shinan Koho	1994-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Jitsuyo Shinan Toroku Koho	1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 11-14772 A (Nippon Business Logistics Kabushiki Kaisha), 22 January, 1999 (22.01.99), Par. Nos. [0005] to [0014], [0044] (Family: none)	1, 2 3-5
Y	JP 2001-93391 A (Nihon Kaiheiki Ind. Co., Ltd.), 06 April, 2001 (06.04.01), Par. Nos. [0006] to [0010], [0017]; Figs. 1 to 3, 8 & JP 2001-143583 A & US 6348665 B1	3
Y	JP 40-29699 Y1 (Noriharu KONISHI), 18 October, 1965 (18.10.65), Figs. 1, 2 (Family: none)	4, 5

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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 - "E" earlier document but published on or after the international filing date
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search
08 December, 2003 (08.12.03)

Date of mailing of the international search report
24 December, 2003 (24.12.03)

Name and mailing address of the ISA/
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 8-62238 A (Kabushiki Kaisha Hyper Electronics), 08 March, 1996 (08.03.96), Full text; all drawings (Family: none)	1-5
A	JP 2000-304767 A (Kabushiki Kaisha Eguru System), 02 November, 2000 (02.11.00), Full text; all drawings (Family: none)	1-5
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 143982/1987 (Laid-open No. 48611/1989) (NEC Corp.), 27 March, 1989 (27.03.89), Full text; all drawings (Family: none)	1-5
A	US 4438720 A1 (Worth R.Conn), 27 March, 1984 (27.03.84), Figs. 8, 9 (Family: none)	1-5